

## ezIP 1 ZONE AUDIO GATEWAY EZ-GW1W, EZ-GW1R

### INTRODUCTION

The EZ-GW1W and EZ-GW1R ezIP 1 Zone Audio Gateways enable voice access to a single zone of one-way paging over an IP-based network. This allows page zone extension anywhere on the network. The EZ-GW1W is designed for wall or table placement. The EZ-GW1R is designed for 19" mounting (1U).

### SPECIFICATIONS

#### Features

- Compatible with Valcom ezIP Protocol
- Upgradable to full Valcom IP capability
- 1 Audio Input
- 2 Audio Outputs
- 2 Form C Relays
- 1 Contact Closure Input
- RJ-45 jack for network connection
- Front panel activity LED
- Provides audio for up to 40 Valcom one-way amplified speaker assemblies
- AUX audio input via RCA jack
- Contact closure or VOX operation of audio input
- Removable screw terminal connectors provided for audio and relay interface
- AUX input music mutes during page
- Output control contact closure provided during paging output
- Compatible with 25 or 70 Volt amplifiers
- Barrel jack for optional DC power
- Power over Ethernet 802.3af Compatible

#### Dimensions/Weight (EZ-GW1W)

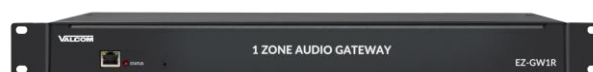
- 1.38 H x 6.13" W x 5.25" D  
(3.50cm H x 15.6cm W x 13.33cm D)
- Weight: 1.25 lbs. (0.57 kg)

#### Dimensions/Weight (EZ-GW1R)

- 1 Standard 19" Rack Unit
- 1.75" H x 16.50" W x 5.25" D  
(4.45 cm x 41.91 cm x 13.33 cm)
- Weight: 5.10 lbs. (2.32 kg)



**EZ-GW1W**



**EZ-GW1R**

#### Nominal Specifications

Input Impedance:	600 Ohms
Input Level:	-10dBm nominal
Voice Switch Sensitivity:	-21dBm
Music Source Input Impedance:	8 to 600 Ohms
Music Input Level:	-10dBm nominal
Output Impedance:	50 Ohms
Output Level:	- 10dBm nominal
Relay Current:	1 Amp @ 24Vdc

#### Nominal Power Requirements

##### Via rear panel barrel connector:

Voltage:	24Vdc
Current:	325mA

##### Via 802.3af PoE Ethernet Switch:

802.3af:	Class 3
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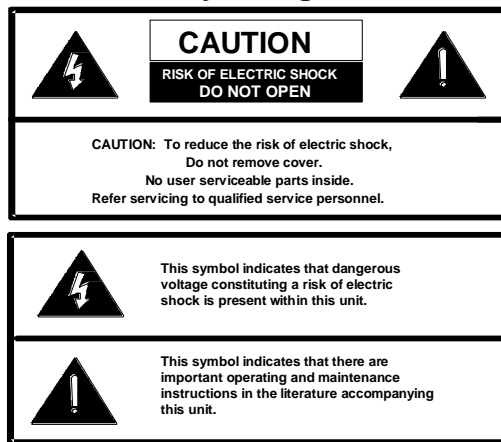
#### Environment

Temperature:	0 to +40° C
Humidity:	0 to 85% non-precipitating

## INSTALLATION

**NOTE:** The telephone system referred to in this manual is the customer premise equipment such as an electronic key system, a PBX or a dedicated single line telephone set. The EZ-GW1W or EZ-GW1R is not intended for direct or indirect connection to the public telephone network. When used with a customer premise telephone system such as a key system or PBX system, these units are interfaced to the system via a fully protected page port or system central office port, which is a fully protected interface device. Also, the host system must be configured to disallow central office trunk conferencing to prevent indirect connection to the public network.

### Precautionary Designations



### FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Mounting

The EZ-GW1W is designed for wall or table mounting. The EZ-GW1R is designed for 19" rack mounting (1U).

**Table:** Provided with the EZ-GW1W are four rubber pads. Peel these pads off their carrier backing and place at the four corners of the bottom of the unit.

**Wall:** Secure mounting brackets to the EZ-GW1W, then secure the EZ-GW1W to the wall. See Figure 1.

**Rack:** Secure mounting brackets to the EZ-GW1R. See Figure 1. Place the EZ-GW1R into a standard 19" rack and secure to rack with proper hardware (not included).

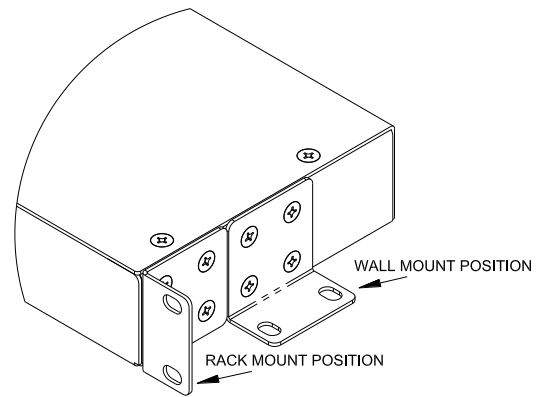


Figure 1.

### Power Connections

The preferred method of powering a EZ-GW1W or EZ-GW1R is via a Power over Ethernet (PoE) switch meeting the 802.3af specification.

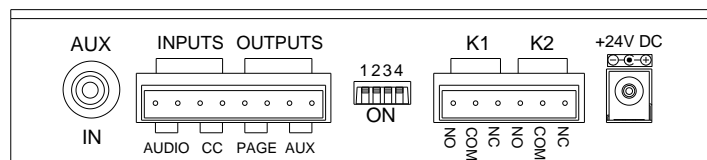
If the rear panel barrel connector is used for power, the preferred power supply is a Valcom VIP-324D.

Make all required signal connections before applying power to the unit. If powering via 802.3af, make sure all signal connections via the back panel are made then connect the EZ-GW1W or EZ-GW1R to the Ethernet switch.

If power is supplied via the barrel connector, make sure all signal connections are secure. Attach the unit to the network via the front panel RJ-45 Ethernet connector. Apply power by plugging the power supply into the EZ-GW1W or EZ-GW1R via the barrel connector on the rear of the unit.

## Network Connection

The EZ-GW1W or EZ-GW1R has one RJ-45 network connector on the front panel. Use a standard Ethernet patch cable to connect the EZ-GW1W or EZ-GW1R to an Ethernet switch.



**Rear View**

## Signal Connections

The EZ-GW1W or EZ-GW1R has signal connectors on the rear panel:

- RCA jack for AUX audio input
- 2 Audio outputs
- 2 Form C relays
- 1 Audio input
- 1 Contact Closure input

**AUX Input:** Local audio may be input via the rear panel RCA jack. Nominal input impedance is 600 Ohms. Connect any compatible audio source using an RCA patch cable. Audio supplied through the rear panel RCA jack is transformer coupled to both Audio Out terminals when paging is idle. This is typically used for background music.

**Audio Out:** Two audio output connections are provided. The terminals labeled "Page" provide a signal output compatible with Valcom self-amplified speakers. Up to 40 Valcom speakers can be connected to the Page output. The terminals labeled "AUX" provide a signal output compatible with most amplifiers and should be used where a transformer-coupled output is desired.

**DIP Switch:** The four-pole DIP switch controls a supervision signal on the "Page" audio output line. For systems where supervision is used, setting DIP switches 1 & 2 to ON enables supervision on the Page audio output connections. Where supervision is not used, set DIP switches 1 & 2 to OFF. Switches 3 & 4 are not used.

**Audio Input/Contact Closure:** One Audio Input and one Contact Closure input are provided. Neither input is polarity sensitive. The contact closure is labeled "CC". The audio input terminals are labeled "AUDIO".

**Relay Channels:** Access to the two form C relays is provided via a six-pin screw terminal block. The relays are labeled K1 and K2. Each relay is brought out on three terminals. The common contact is the middle terminal with the normally closed contact on the right and the normally open contact on the left. Relay contacts are rated for 1A @ 24Vdc.

## Status Indicator Lights

The EZ-GW1W or EZ-GW1R has 3 status indication lights on the front panel:

**STATUS:** Flashes during normal operation and solid during system startup.

**Green LED:** (Link) Indicates Ethernet connection when illuminated.

**Yellow LED:** (Activity) Indicator flashes to indicate network activity.

## SETUP

Information specific to your application will need to be programmed into the EZ-GW1W or EZ-GW1R using a computer. The PC used for programming should be connected to the same subnet as the EZ-GW1W or EZ-GW1R. Setup will be done using the IP Solutions Setup Tool. Download the latest version of the free IP Solutions Setup Tool from the Valcom web site at [www.valcom.com/vipsetuptool](http://www.valcom.com/vipsetuptool).

## TECHNICAL ASSISTANCE

When trouble is reported, verify power is being supplied to the unit and there are no broken connections. If a spare unit is available, substitute a spare unit for the suspected defective unit.

Assistance is available from the factory. Call (540) 563-2000 and press 1 for Technical Support or visit our website at [www.valcom.com](http://www.valcom.com).

## Warranty

Warranty information may be found on our website at [www.valcom.com/warranty](http://www.valcom.com/warranty)

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem. Send the unit to:

**Valcom, Inc.**  
**Repair & Return Dept.**  
**5614 Hollins Road**  
**Roanoke, Va. 24019-505**